

Wireless Keyboard & Mouse Receiver Chip CH9160

Datasheet
Version: 1.0
<https://wch.cn>

1. Overview

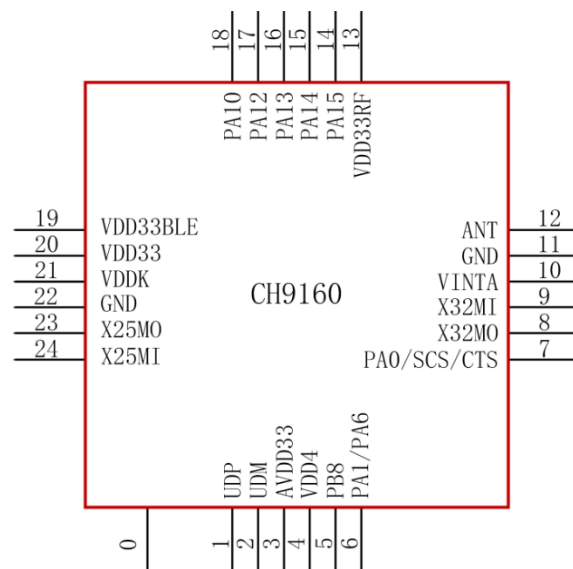
CH9160 is a highly integrated 2.4G wireless keyboard and mouse receiver (Dongle) chip. The single chip integrates 2.4G RF transceiver and high-speed USB2.0 controller and PHY. It can be used for computer peripherals such as standard keyboard, full keyboard, mouse, etc. It has both multimedia and system control functions, supports custom device name and manufacturer information, and is compatible with standard USB host interfaces of various desktop computers, laptops, tablets and game consoles.

2. Features

- Single chip, driver-free, plug and play.
- Built-in self-developed 2.4G RF transceiver, receiving sensitivity -95dBm.
- Support reporting rate configuration, up to 8000Hz.
- Built-in high-speed USB2.0 controller and PHY (480Mbps).
- Support standard keyboard, full keyboard and mouse.
- Support multimedia, system control and FN key reporting.
- Support USB mode IAP upgrade.
- Support modification of USB and 2.4G configuration parameters, custom manufacturer information.
- Provide upgrade, configuration and test tools.
- Working voltage 3.8V ~ 4.3V.
- Working temperature range -40°C ~ 85°C.
- Provide QFN24 lead-free package, compatible with RoHS.

3. Pin Information

3.1 Pinout



Note: Pin #0 refers to the bottom plate of the QFN package.

3.2 Package

Package Form	Shaping Width	Pin Pitch		Package Description	Order Model
QFN24	4*4mm	0.5mm	19.7mil	Quad Flat No-lead Package	CH9160

Note: The unit of dimension marking is mm (millimeter).

The center spacing of the pins is the nominal value, with no error. The dimensional error other than this is no more than $\pm 0.2\text{mm}$.

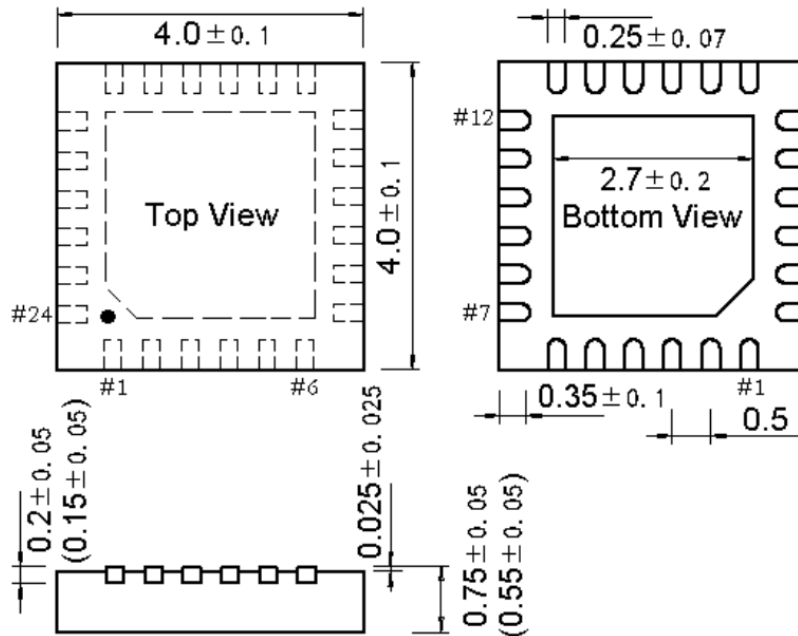


Figure 3-1 QFN24 package